CW#78H: Factoring ax^2 + bx +c

Honors Geometry

February 8th & 9th, 2016

*Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PD:\_\_\_\_\_\_*

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| You can write some trinomials of the form as the product of two binomials.  Example: = | |
| 1. FOIL . | 1. What are the *individual* -terms (before you combine “like terms”)? |
| 1. What is the product of and ? | 1. What pattern do you notice between the individual -terms and ? |
| 1. 🡪 To factor a trinomial of the form … | |
| 1. What is the factored form of ?    1. Step 1:    2. Step 2:    3. Step 3:    4. Step 4: | |
| 1. What is the factored form of ?    1. Step 1:    2. Step 2:    3. Step 3:    4. Step 4: | |
| 1. Factor: | 1. Factor: |
| 1. Factor: | 1. Factor: |
| 1. Factor: | 1. Factor: |
| 1. Factor: | 1. Factor: |
| 1. Factor: | 17. Factor: |
| *To factor a polynomial completely, first factor out the GCF of the polynomial’s terms. Then, factor the remaining polynomial until it is written as the product of polynomials that cannot be factored further.* | |
| 1. Factor completely: . | 1. Factor completely: . |
| 1. Factor completely: . | 1. Factor completely: . |
| 1. Factor completely: . | 1. Why can you NOT factor the trinomial   ? |
| 1. The area of a rectangle is .    1. What are the possible dimensions of the rectangle?    2. What is the perimeter of the rectangle?    3. If the perimeter of the rectangle is 58 feet, what is the width of the rectangle? What is the length of the rectangle? | |
| 1. A triangle has an area of . The base of the triangle is .    1. What is the height of the triangle? | |